

SLOW RESPONSES IN REDUNDANT ARRAYS OF INEXPENSIVE DISKS

Abstract of the Disclosure

A redundant array includes a plurality of disks, a bus coupling the disks, a receiving device, and a device to reconstruct a block stored in one of the disks. The device reconstructs the block with associated data and parity blocks from other disks. The device transmits the reconstructed block to the receiving device in response to the one of the disks being slowly responding. A method includes requesting a first disk to transmit a first block, reconstructing, when necessary, the first block from associated data stored in other disks of a RAID configuration, and transmitting the reconstructed block directly to a receiving device. The transmitting is in response to the first disk not transmitting the block in a predetermined time.

339158.B11

20